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(54) DIAMOND WINDOW

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a diamond window which emits extremely weak fluorescence when it is irradiated with a laser and is produced at a low cost.

SOLUTION: The diamond window is made of a diamond single crystal synthesized by a temperature difference method and contains nitrogen in an amount of 3 to 300 ppm and Ni in an amount of  $\leq 3$  ppm. Such a diamond window is obtained by synthesizing the diamond by the temperature difference method comprising using a solvent substantially free from Ni and adding no nitrogen getter.

## LEGAL STATUS

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